

Datasheet for ABIN114548 **anti-PSMA antibody**

[Go to Product page](#)

Overview

Quantity:	0.5 mg
Target:	PSMA (FOLH1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PSMA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF), Immunohistochemistry (Frozen Sections) (IHC (fro)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Crude membrane protein preparation from pooled prostate malignant carcinoma from China.
Clone:	Y-PSMA1
Isotype:	IgG2b
Specificity:	This antibody detects PSMA expressed LNCap cell lines. Little or no cross-reactivity to benign prostate hyperplasia (BPH) or to normal prostatic tissue.
Cross-Reactivity (Details):	Species reactivity (tested):Human.
Purification:	Affinity Chromatography on Protein G.

Target Details

Target:	PSMA (FOLH1)
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Target Details

Alternative Name:	PSMA / FOLH1 (FOLH1 Products)
Background:	PSMA (FOLH1) is a type II transmembrane glycoprotein belonging to the M28 peptidase family. Three functionally distinct proteins are encoded, including folypoly-gamma-glutamate carboxypeptidase in the intestine, N-acetylated alpha-linked acidic dipeptidase 1 in the brain, and prostate-specific membrane antigen in the prostate. A mutation in the intestinal form may be associated with impaired intestinal absorption of dietary folates, resulting in low blood folate levels and consequent hyperhomocysteinemia. The form expressed in the brain may be involved in a number of pathological conditions associated with glutamate excitotoxicity. The prostate form is up-regulated in cancerous cells and is used as an effective diagnostic and prognostic indicator of prostate cancer. This gene likely arose from a duplication event of a nearby chromosomal region. Alternative splicing gives rise to multiple transcript variants. Synonyms: FOLH, Folate hydrolase 1, Folylpoly-gamma-glutamate carboxypeptidase, GCP2, Glutamate carboxypeptidase 2, Glutamate carboxypeptidase II, Membrane glutamate carboxypeptidase, N-acetylated-alpha-linked acidic dipeptidase I, NAALAD1, NAALAdase, PSM, Prostate-specific membrane antigen, Pteroylpoly-gamma-glutamate carboxypeptidase
Gene ID:	2346
NCBI Accession:	NP_001014986
UniProt:	Q04609

Application Details

Application Notes:	ELISA. Western blot. Immunofluorescence. Immunohistochemistry on Formalin-Fixed Paraffin Embedded and Frozen Tissue Sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Reconstitution:	Restore with double distilled water to adjust the final concentration to 1.0 mg/mL.
Buffer:	0.01 M PBS, pH 7.0 without preservatives.
Preservative:	Without preservative
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	-20 °C/-80 °C

Handling

Storage Comment: Store lyophilized (preferably in a desiccator) at -20 °C and in aliquots at -80 °C. Reconstituted antibody can be stored at 4 °C for a limited period of time, it does not show decline in activity after two weeks at 4 °C.